

**Missouri Assessment Program
Spring 2002**

**Mathematics
Released Items
Scoring Guide
Grade 8**

Session:	1
Item No.:	10
Page No.:	10-11
Content Standard(s):	3 Data Analysis, Probability, and Statistics
Process Standard(s):	3.8, 4.1

Score Points:

4 points	<p>The student's response fully addresses the performance event.</p> <p>The response:</p> <ul style="list-style-type: none">• demonstrates knowledge of the mathematical concepts and principles needed to complete the event.• communicates all process components that lead to an appropriate and systematic solution.• may have only minor flaws with no effect on the reasonableness of the solution.
3 points	<p>The student's response substantially addresses the performance event.</p> <p>The response:</p> <ul style="list-style-type: none">• demonstrates knowledge of the mathematical concepts and principles needed to complete the event.• communicates most process components that lead to an appropriate and systematic solution.• may have only minor flaws with minimal effect on the reasonableness of the solution.
2 points	<p>The student's response partially addresses the performance event.</p> <p>The response:</p> <ul style="list-style-type: none">• demonstrates a limited knowledge of the mathematical concepts and principles needed to complete the event.• communicates some process components that lead to an appropriate and systematic solution.• may have flaws or extraneous information that indicates some lack of understanding or confusion.

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1 point	<p>The student's response minimally addresses the performance event.</p> <p>The response:</p> <ul style="list-style-type: none">• demonstrates a limited knowledge of the mathematical concepts and principles needed to complete the event.• communicates few or no process components that lead to an appropriate and systematic solution.• may have flaws or extraneous information that indicates lack of understanding or confusion.
0 points	<p>Other—Responses not addressed by the Condition Codes:</p> <p>Examples of "0":</p> <p>Work consists of copying the prompt information only.</p> <p>Work indicates no mathematical understanding of the task.</p>

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Exemplary Response:

- I recommend the following five activities for the school “Fun Night” because they represent more than 50% of the votes and will allow the committee to stay within the \$300 budget.

Volleyball	15%	\$10.00
Arcade games	25%	\$200.00
Miniature golf	9%	\$50.00
Free-throw shot	15%	\$15.00
Face painting	3%	\$10.00
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Total	67%	\$285.00

OR

Other equivalent recommendation with supporting data

Note: The recommendation may be in the form of a narrative with supporting data or a list with supporting data.

Score Points:

Apply the 4-point holistic rubric.

Session: 2
Item No.: 3
Page No.: 4
Content Standard(s): 4 Patterns and Relationships
Process Standard(s): 1.10

Exemplary Response:

- 40 hours

AND

- $\$60.00 + \$3.50h = \$200.00$
 $3.50h = 200.00 - 60.00$
 $h = 140.00 \div 3.50$
 $h = 40$

OR

Other valid equation and process

Score Points:

2 points	Exemplary response
1 point	Correct equation and process OR Correct answer only
0 points	Other

Session: 2
Item No.: 5
Page No.: 6
Content Standard(s): 1 Number Sense
Process Standard(s): 1.10

Exemplary Response:

- 46.36 (pounds)

AND

- $\frac{2}{0.76} = \frac{122}{x}$

$$122 \times 0.76 = 2x$$

$$92.72 = 2x$$

$$92.72 \div 2 = x$$

$$46.36 = x$$

OR

Other valid process

Score Points:

2 points	Exemplary response
1 point	Correct process; error in computation OR Correct answer only
0 points	Other